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Customer No.: 31561
Docket No.: 12790-US-PA
Application No.: 10/709,609

AMENDMENT

Please amend the application as indicated hereafter.

To the Claims:

Claim 1 (currently amended) A data compression/decompression device, suitable for compressing/decompressing [[a]]an uncompressed/compressed data transmitted between a data generation device and a data storage device, comprising: an input buffer, for buffering and storing said uncompressed/compressed data for input processing; a data compressor/decompressor, coupled to said input buffer, for compressing/decompressing said uncompressed/compressed data and outputting a compressed/decompressed data; an output buffer, coupled to said data compressor/decompressor for buffering and storing said compressed/decompressed data for output; a data compressor/decompressor, coupled to said output buffer, for compressing/decompressing said data for input and storing-said data for output in said output buffer; and a controller, coupled to said input buffer, said output buffer and said data compressor/decompressor, for controlling data transmission with said data generation device and said data storage device, controlling compressing/decompressing said uncompressed/compressed data, and managing an address mapping table which is the cross reference between an access address transmitted from said data generation device and a physical address of storing the data storage in said data storage device.

Claim 2 (currently amended) The device of claim 1, wherein said controller

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includes: a data generation control unit, for controlling data transmission with said data generation device; a data storage control unit, for controlling data transmission with said data storage device; a data extractor, for obtaining said uncompressed/compressed data from said input buffer, extracting a compressing/decompressing portion of said uncompressed/compressed data, and sending said compressing/decompressing portion of said uncompressed/compressed data to said data compressor/decompressor; and a main control unit, for coordinating and controlling said data generation control unit, said data storage control unit, and said data extractor, and for managing said address mapping table.

Claim 3 (original) The device of claim 1, wherein said data generation device is at least one of a host, a laptop computer, a microprocessor, an interface card and a router.

Claim 4 (original) The device of claim 1, wherein said data storage device is at least one of a hard disk drive, a floppy disk drive, a CD-RW drive, a magnetic-optical device, a digital video recorder and a flash memory card.

Claim 5 (currently amended) A system applying a data compression/decompression device, comprising: a data storage device, having a <u>first</u> data transmission interface; a data generation device, accessing a data in said data storage device via said data transmission interface having a second data transmission interface; and a data compression/decompression device, coupled to said data storage device and said data generation device via said <u>first</u> and <u>second</u> data transmission interface interfaces.

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respectively, for compressing/decompressing saidan uncompressed/compressed data transmitted between said data storage device and said data generation device-and managing an-address mapping table which is the cross reference between an access address transmitted from said data generation and a physical address of storing said data in said data storage device, wherein said data compression/decompression device comprises: an input buffer, for buffering and storing said uncompressed/compressed data for processing; a data compressor/decompressor, coupled to said input buffer, for compressing/decompressing said uncompressed/compressed data and outputting a compressed/decompressed data; an output buffer, coupled to said data compressor/decompressor for buffering and storing said compressed/decompressed data for output; and a controller, coupled to said input buffer, said output buffer and said data compressor/decompressor, for controlling data transmission with said data generation device and said data storage device, controlling compressing/decompressing said uncompressed/compressed data, and managing an address mapping table which is the cross reference hetween an access address transmitted from said data generation device and a physical address of data storage in said data storage device.

Claim 6 (canceled)

Claim 7 (currently amended) The system of claim [[6]] 5, wherein said controller includes: a data generation control unit, for controlling data transmission with said data generation device; a data storage control unit, for controlling data transmission with said

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data storage device; a data extractor, for obtaining said <u>uncompressed/compressed</u> data from said input buffer, extracting a compressing/decompressing portion of said <u>uncompressed/compressed</u> data, and sending said compressing/decompressing portion of said <u>uncompressed/compressed</u> data to said data compressor/decompressor; and a main control unit, for coordinating and controlling said data generation control unit, said data storage control unit, and said data extractor, and for managing said address mapping table.

Claim 8 (original) The system of claim 5, wherein said data generation device is at least one of a host, a laptop computer, a microprocessor, an interface card and a router.

Claim 9 (original) The system of claim 5, wherein said data storage device is at least one of a hard disk drive, a floppy disk drive, a CD-RW drive, a magnetic-optical device, a digital video recorder and a flash memory card.

Claim 10 (currently amended) The system of claim 5, wherein said <u>first or second</u> data transmission interface is one of an IDE interface, a 1394 interface, a SCSI interface, a serial ATA interface, a serial attached SCSI interface, a PCMCIA interface and a USB interface.